Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L7	1	(wavelet same (coefficient with memory with row) same ((count\$2 indicat\$3 point\$3) with significant)).clm. Therefore Search	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 16:26
L6	549	L5 and @ad<="20010330" and @pd>="20040201"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 16:22
L5	8802	382/166,232-236,238-240, 248-253;345/555;375/240. 03-240.05,240.18-240.2;341/59, 69;358/426.13-426.16,539.ccls.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/28 16:20
S10 5	6	(stor\$3 with ((DCT wavelet) adj1 (coefficient))) same (memory with pointer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:48
S10 4	71	(stor\$3 with (compressed adj1 (data coefficient))) same (memory with pointer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:48
S10 3	133	(stor\$3 with (compressed near3 (data coefficient))) same (memory with pointer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:48
S10 2	407	compression same (memory with pointer)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/10/27 15:47
S10 1	34	schwartz-e.in. and @ad>"20010101"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/03/22 13:28
S10 0	122	S99 and @ad<"20010330"	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR · .	ON	2005/01/03 14:33

S99 ·	166	((select\$3 adj1 (data)) near3 ((access\$3 retriev\$3) adj3 memor\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:33
S98	4	((select\$3 adj1 (coefficient)) near3 ((access\$3 retriev\$3) near3 memor\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:32
S97	1	JPEG\$5 and ((select\$3 adj1 (data coefficient)) near3 ((access\$3 retriev\$3) near3 memor\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR ·	ON	2005/01/03 14:27
S96	252	(select\$3 adj1 (data coefficient)) near3 ((access\$3 retriev\$3) near3 memor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:24
S95	260	(select\$3 adj1 (data coefficient datum item)) near3 ((access\$3 retriev\$3) near3 memor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:13
S94	779	(select\$3 adj1 (data coefficient datum item)) with ((access\$3 retriev\$3) near3 memor\$3)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:11
S93	4	JPEG and (selective\$2 adj3 ((access\$3 retriev\$3) near3 memor\$3))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:09
S92	12	JPEG and ((access\$3 retriev\$3) with ((select\$3 identif\$4 chosen designat\$3 specific\$3) near3 coefficient))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2005/01/03 14:04
S85 .	176	(pointer\$1 same memory) and wavelet	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/13 13:15
S84	35747	pointer\$1 same memory	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/02/13 13:15



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(12 pages)

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Charles E. Jacobs, Adam Finkelstein, David H. Salesin Fast multiresolution image querying

September 1995 Proceedings of the 22nd annual conference on Computer graphics and interactive techniques

Publisher: ACM Press

Full text available: Tpdf(529.14 KB) ps (211.52 KB)

Additional Information: full citation, references, citings, index terms

Keywords: content-based retrieval, image databases, image indexing, image metrics, query by content, query by example, similarity retrieval, sketch retrieval, wavelets

Approximate computation of multidimensional aggregates of sparse data using wavelets

Jeffrey Scott Vitter, Min Wang June 1999 ACM SIGMOD Record, Proceedings of the 1999 ACM SIGMOD international conference on Management of data SIGMOD '99, Volume 28 Issue 2

Publisher: ACM Press

Full text available: Pp pdf(1.67 MB)

Additional Information: full citation, abstract, references, citings, index terms

Computing multidimensional aggregates in high dimensions is a performance bottleneck for many OLAP applications. space in a data warehouse environment. It is advantageous to have fast, approximate answers to OLAP aggregation Obtaining the exact answer to an aggregation query can be prohibitively expensive in terms of time and/or storage queries. In this paper, we present a novel method that provides approximate answers to high-dimensional OLAP aggregation queries in massive spars ...

A pipelined architecture for partitioned DWT based lossy image compression using FPGA's Jörg Ritter, Paul Molitor က

## February 2001 Proceedings of the 2001 ACM/SIGDA ninth international symposium on Field programmable gate

arrays Publisher: ACM Press Full text available: <u>pdf(163.32 KB)</u>

Additional Information: full citation, abstract, references, index terms

access to the whole image. This makes the algorithms unsuitable for hardware solutions because of extensive access to image compression \cite{TenLectures, Shapiro, Spiht}. However, the algorithms proposed in literature assume random Discrete wavelet transformations (DWT) followed by embedded zerotree encoding is a very efficient technique for external memory. Here, we present an efficient architecture for computing DWT of images, which is based on a partitioned approach for lossy image comp ...

Keywords: FPGA, Xilinx, architecture, embedded zero tree coding, field programmable gate arrays, lossy image compression, pipelining, wavelet transformation

VLSI architecture for lossless compression of medical images using the discrete wavelet transform

I. Urriza, J. I. Artigas, J. I. García, L. A. Barragán, D. Navarro

February 1998 Proceedings of the conference on Design, automation and test in Europe

Publisher: IEEE Computer Society

Full text available: Ppdf(58.57 KB)

isher Additional Information: full citation, abstract, references, index terms

(FDWT/IDWT), to compress medical images for storage and retrieval. Lossless compression is usually required in the architectures that appear in the literature. Thus, there is a clear need for designing an architecture to implement the medical image field. The word length required for lossless compression makes too expensive the area cost of the This paper presents a VLSI Architecture to implement the forward and inverse 2-D Discrete Wavelet Transform lossless compression of medical images using ...

Keywords: Medical Image compression, VLSI architectures, DWT

Global illumination of glossy environments using wavelets and importance

Per H. Christensen, Eric J. Stollnitz, David H. Salesin, Tony D. DeRose January 1996 ACM Transactions on Graphics (TOG), Volume 15 Issue 1

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms, review Full text available: Ppdf(5.00 MB)

interactions having the greatest impact on the visible solution. Wavelets are used to provide an efficient representation the global illumination problem with glossy and diffuse reflections. Importance is used to focus the computation on the We show how importance-driven refinement and a wavelet basis can be combined to provide an efficient solution to of radiance, importance, and the transport operator. We discuss a number of choices that must be made when constructing a finite element alg ...

6 3D RGB image compression for interactive applications Chandrajit Bajaj, Insung Ihm, Sanghun Park

## January 2001 ACM Transactions on Graphics (TOG), Volume 20 Issue 1

\* Publisher: ACM Press

Full text available: Topping pdf(2.41 MB)

Additional Information: full citation, abstract, references, citings, index terms

compression technique is suitable for applications wherein data are accessed in a somewhat unpredictable fashion, and designing our compression method, we have compromised between two important goals: high compression ratio and This paper presents a new 3D RGB image compression scheme designed for interactive real-time applications. In fast random access ability, and have tried to minimize the overhead caused during run-time reconstruction. Our real-time performance of decompression is nece ...

Lighting & sampling: Triple product wavelet integrals for all-frequency relighting

August 2004 ACM Transactions on Gran

August 2004 ACM Transactions on Graphics (TOG), Volume 23 Issue 3

Publisher: ACM Press

Full text available: 🚰 <u>pdf(365.55 KB) 😩 mov</u> (25:51 MIN)

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the 6D space of light direction, view direction, and surface position. While image-based and synthetic methods for realunder all-frequency direct lighting such an environment maps. The basic difficulty is representation and computation in This paper focuses on efficient rendering based on pre-computed light transport, with realistic materials and shadows time rendering have been proposed, they do not scale to high sampling rates with variation of both lighting and viewpoint. Current approaches ...

Keywords: Haar Wavelets, Image-Based Rendering, Non-linear Approximation, Pre-computed Radiance Transfer,

Locality phase prediction

🐒 Xipeng Shen, Yutao Zhong, Chen Ding

Architecture News, Proceedings of the 11th international conference on Architectural support for October 2004 ACM SIGOPS Operating Systems Review, ACM SIGPLAN Notices, ACM SIGARCH Computer programming languages and operating systems ASPLOS-XI, Volume 38, 39, 32 Issue 5, 11, 5

Publisher: ACM Press

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locality profiling and run-time prediction. By profiling a training input, it identifies locality phases by sifting through all As computer memory hierarchy becomes adaptive, its performance increasingly depends on forecasting the dynamic accesses to all data elements using variable-distance sampling, wavelet filtering, and optimal phase partitioning. It program locality. This paper presents a method that predicts the locality phases of a program by a combination of then constructs a phase hiera ...

Keywords: dynamic optimization, locality analysis and optimization, phase hierarchy, program phase analysis and prediction, reconfigurable architecture

Texture synthesis: Wavelet noise Robert L. Cook, Tony DeRose

ACM Transactions on Graphics (TOG), Volume 24 Issue 3

Publisher: ACM Press

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analyze these problems and show that they are particularly severe when 3D noise is used to texture a 2D surface. We images have been made with it. Nevertheless, it is prone to problems with aliasing and detail loss. In this paper we noise function introduced by Ken Perlin is still the most popular because it is simple and fast, and many spectacular Noise functions are an essential building block for writing procedural shaders in 3D computer graphics. The original use the theory of wavelets to cr ...

Keywords: multiresolution analysis, noise, procedural textures, rendering, shading, texture synthesis, texturing,

All-frequency shadows using non-linear wavelet lighting approximation 9

Ren Ng, Ravi Ramamoorthi, Pat Hanrahan

ACM Transactions on Graphics (TOG), Volume 22 Issue 3

Full text available: The pdf(5.22 MB) Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index terms

We present a method, based on pre-computed light transport, for real-time rendering of objects under all-frequency, time-varying illumination represented as a high-resolution environment map. Current techniques are limited to small approximate the environment map in a wavelet basis, keeping only the largest terms (this is known as a *non-linear* area lights, with sharp shadows, or large low-frequency lights, with very soft shadows. Our main contribution is to approximation). We obtain furth ...

Keywords: image-based rendering, non-linear approximation, relighting, shadow algorithms, spherical harmonics,

Multiresolution storage and search in sensor networks

Deepak Ganesan, Ben Greenstein, Deborah Estrin, John Heidemann, Ramesh Govindan August 2005 ACM Transactions on Storage (TOS), Volume 1 Issue 3

Publisher: ACM Press

Full text available: Tope pdf(1.55 MB)

Additional Information: full citation, abstract, references, index terms

Wireless sensor networks enable dense sensing of the environment, offering unprecedented opportunities for observing and querying in many sensor networks. Centralized storage requires multihop transmission of sensor data to Internet distributed search. The need for these techniques arises from the inability to provide persistent, centralized storage the physical world. This article addresses two key challenges in wireless sensor networks: in-network storage and gateways which can quickly drain b ...

Keywords: Wireless sensor networks, data aging, data storage, drill-down query, multiresolution storage, wavelet

processing

Processor-memory coexploration using an architecture description language

Prabhat Mishra, Mahesh Mamidipaka, Nikil Dutt

February 2004 ACM Transactions on Embedded Computing Systems (TECS), Volume 3 Issue 1

Publisher: ACM Press

Full text available: The pdf(201.88 KB)

Additional Information: full citation, abstract, references, index terms

widening processor--memory gap, more aggressive memory technologies and organizations have appeared, allowing Iraditionally, memory organizations for programmable embedded systems assume a fixed cache hierarchy. With the Memory represents a major bottleneck in modern embedded systems in terms of cost, power, and performance. customization of a heterogeneous memory architecture tuned for specific target applications. However, such a processor--memory coexploration approach critically needs the ab ...

Keywords: Processor--memory codesign, architecture description language, design space exploration, memory

Ray tracing: Wavelet importance sampling: efficiently evaluating products of complex functions <u>უ</u>

Petrik Clarberg, Wojciech Jarosz, Tomas Akenine-Möller, Henrik Wann Jensen ACM Transactions on Graphics (TOG), Volume 24 Issue 3

Full text available: Pdf(5:19 MB)

Publisher: ACM Press

Additional Information: full citation, abstract, references, index terms

generalize previous work on wavelet products to higher dimensional spaces and show how this product can be sampled dimensional functions even if the product of the two functions in itself is too memory consuming. Then, we present a We present a new technique for importance sampling products of complex functions using wavelets. First, we on-the-fly without the need of evaluating the full product. This makes it possible to sample products of highnovel hierarchical sample warping algorithm that ge ...

Keywords: Monte Carlo techniques, complex products, global illumination, importance sampling, rendering, wavelets

Algorithm 735, Wavelet transform algorithms for finite-duration discrete-time signals Carl Taswell, Kevin C. McGill 14

September 1994 ACM Transactions on Mathematical Software (TOMS), Volume 20 Issue 3

**Publisher: ACM Press** 

Full text available: Tpdf(793.46 KB)

Additional Information: full citation, references, citings, index terms

Keywords: multiresolution analysis, signal processing, waveform analysis, wavelet transform, wavelets

## Multiresolution green's function methods for interactive simulation of large-scale elastostatic objects

Doug L. James, Dinesh K. Pai

January 2003 ACM Transactions on Graphics (TOG), Volume 22 Issue 1

Publisher: ACM Press

Full text available: The pdf(8.69 MB)

Additional Information: full citation, abstract, references, citings, index terms

models. The deformation of the models is described using precomputed Green's functions (GFs), and runtime boundary value problems (BVPs) are solved using existing Capacitance Matrix Algorithms (CMAs). Multiresolution techniques are We present a framework for low-latency interactive simulation of linear elastostatic models, and other systems arising from linear elliptic partial differential equations, which makes it feasible to interactively simulate large-scale physical introduced to control the ...

Keywords: Capacitance matrix, Green's function, deformation, elastostatic, fast summation, force feedback, interactive real-time applications, lifting scheme, real-time, updating, wavelets

Wavelet-based relative prefix sum methods for range sum queries in data cubes 16

September 2002 Proceedings of the 2002 conference of the Centre for Advanced Studies on Collaborative

research

Daniel Lemire

Publisher: IBM Press

Full text available: Mpdf(77.58 KB)

Additional Information: full citation, abstract, references, citings, index terms

queries to scale well. Range sum queries in data cubes can be achieved in time O(1) using prefix sum aggregates but method, the update costs can be reduced to the root of the size of the data cube  $O(n^{d/2})$ . We present a new family ... Data mining and related applications often rely on extensive range sum queries and thus, it is important for these prefix sum update costs are proportional to the size of the data cube  $O(n^d)$ . Using the Relative Prefix Sum (RPS)

WaveCluster: a wavelet-based clustering approach for spatial data in very large databases Gholamhosein Sheikholeslami, Surojit Chatterjee, Aidong Zhang 17

February 2000 The VLDB Journal — The International Journal on Very Large Data Bases, Volume 8 Issue 3-4

Publisher: Springer-Verlag New York, Inc.

Full text available: Todf(594.51 KB)

Additional Information: full citation, abstract, citings, index terms

detect clusters of arbitrary shape. It must be insensitive to the noise (outliers) and the order of input data. We propose databases is an important problem, which tries to find the densely populated regions in the feature space to be used in data mining, knowledge discovery, or efficient information retrieval. A good clustering approach should be efficient and Many applications require the management of spatial data in a multidimensional feature space. Clustering large spatial WaveCluster

Research sessions: P2P and sensor networks: Compressing historical information in sensor networks Antonios Deligiannakis, Yannis Kotidis, Nick Roussopoulos

Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: Tpdf(172.89 KB)

Additional Information: full citation, abstract, references

We are inevitably moving into a realm where small and inexpensive wireless devices would be seamlessly embedded in (processing, bandwidth, energy) that such devices possess. In this paper we propose a new technique for compressing the physical world and form a wireless sensor network in order to perform complex monitoring and computational tasks. Such networks pose new challenges in data processing and dissemination because of the limited resources multiple streams containing historical data fro ...

Face recognition: A literature survey 19

December 2003 ACM Computing Surveys (CSUR), Volume 35 Issue 4 W. Zhao, R. Chellappa, P. J. Phillips, A. Rosenfeld

Publisher: ACM Press

Full text available: Topf(4.28 MB)

Additional Information: full citation, abstract, references, citings, index terms

the wide range of commercial and law enforcement applications, and the second is the availability of feasible technologies after 30 years of research. Even though current machine recognition systems have reached a certain level As one of the most successful applications of image analysis and understanding, face recognition has recently received significant attention, especially during the past several years. At least two reasons account for this trend: the first is of maturity, their success is ...

Keywords: Face recognition, person identification

Special purpose processing: Cost-effective low-power processor-in-memory-based reconfigurable datapath for 20

multimedia applications

Marco Lanuzza, Martin Margala, Pasquale Corsonello August 2005 Proceedings of the 2005 international symposium on Low power electronics and design ISLPED

**Publisher: ACM Press** 

Full text available: T pdf(416.97 KB)

Additional Information: full citation, abstract, references, index terms

based devices. Due to their repetitive computing and memory intensive nature, they can take effective advantage from optimized for multimedia applications is presented. The new circuit efficiently performs parallel arithmetic operations Multimedia applications have become a dominant computing workload for computer systems as well as for wireless-Processor-In-Memory (PIM) technology. In this paper, a new low-power PIM-based 32-bit reconfigurable datapath on either 8-, 16-, or 32-bit integer data ...

Keywords: datapath, processor-in-memory, reconfigurable computing

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